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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 30

**Complete if Known**

Application Number	09/899059
Filing Date	07/06/2001
First Named Inventor	Craig A. Rosen
Art Unit	1647
Examiner Name	Guo-Liang Yu
Attorney Docket Number	075977-0122

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-4,002,531-	01-11-1977	ROYER	
	A2	US-4,179,337-	12-18-1979	DAVIS ET AL.	
	A3	US-4,433,092-	02-21-1984	NEMETH	
	A4	US-4,444,887-	04-24-1984	HOFFMANN	
	A5	US-4,474,893-	10-02-1984	READING	
	A6	US-4,631,211-	12-23-1986	HOUGHTEN	
	A7	US-4,676,980-	06-30-1987	SEGAL ET AL.	
	A8	US-4,708,781-	11-24-1987	VANDER	
	A9	US-4,714,681-	12-22-1987	READING	
	A10	US-4,716,111-	12-29-1987	OSBAND ET AL.	
	A11	US-4,741,900-	05-03-1988	ALVAREZ ET AL.	
	A12	US-4,816,397-	03-28-1989	BOSS ET AL.	
	A13	US-4,816,567-	03-28-1989	CABILLY ET AL.	
	A14	US-4,873,191-	10-10-1989	WAGNER ET AL.	
	A15	US-4,925,648-	05-15-1990	HANSEN ET AL.	
	A16	US-4,946,778-	08-07-1990	LADNER ET AL.	
	A17	US-4,980,286-	12-25-1990	MORGAN ET AL.	
	A18	US-4,994,560-	02-19-1991	KRUPER ET AL.	
	A19	US-5,112,946-	05-12-1992	MAIONE	
	A20	US-5,122,464-	06-16-1992	WILSON ET AL.	
	A21	US-5,194,392-	03-16-1993	GEYSEN	
	A22	US-5,223,409-	06-29-1993	LADNER ET AL.	
	A23	US-5,225,539-	07-06-1993	WINTER	
	A24	US-5,258,498-	11-02-1993	HUSTON ET AL.	
	A25	US-5,274,119-	12-28-1993	FRAZIER ET AL.	
	A26	US-5,314,995-	05-24-1994	FELL ET AL.	
	A27	US-5,336,603-	08-09-1994	CAPON ET AL.	
	A28	US-5,342,604-	08-30-1994	WILSON ET AL.	
	A29	US-5,349,052-	09-20-1994	DELGADO ET AL.	
	A30	US-5,349,053-	09-20-1994	LANDOLFI	
	A31	US-5,359,046-	10-25-1994	CAPON ET AL.	
	A32	US-5,399,349-	03-21-1995	PAUNESCU ET AL.	
	A33	US-5,403,484-	04-04-1995	LADNER ET AL.	
	A34	US-5,413,923-	05-09-1995	KUCHERLAPATI ET AL.	
	A35	US-5,427,908-	06-27-1995	DOWER ET AL.	
	A36	US-5,428,139-	06-27-1995	KIEFER ET AL.	
	A37	US-5,435,990-	07-25-1995	CHENG ET AL.	
	A38	US-5,436,146-	07-25-1995	SHENK ET AL.	
	A39	US-5,441,050-	08-15-1995	THURSTON ET AL.	
	A40	US-5,447,851-	09-05-1995	BEUTLER ET AL.	

 Examiner  
Signature

 Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number Filing Date First Named Inventor Art Unit Examiner Name Attorney Docket Number	09/899059 07/06/2001 Craig A. Rosen 1647 Guo-Liang Yu 075977-0122
Sheet	2	of	30

U.S. PATENT DOCUMENTS					
		Document Number			
	A41	US-5,460,959-	10-24-1995	MULLIGAN ET AL.	
	A42	US-5,463,575-	10-31-1995	WHITE	
	A43	US-5,474,981-	12-12-1995	LEDER ET AL.	
	A44	US-5,478,925-	12-26-1995	WALLACH ET AL.	
	A45	US-5,480,971-	01-02-1996	HOUGHTEN ET AL.	
	A46	US-5,489,425-	02-06-1996	KRUPER ET AL.	
	A47	US-5,505,931-	04-09-1996	PRIBISH	
	A48	US-5,516,637-	05-14-1996	HUANG ET AL.	
	A49	US-5,530,101-	06-25-1996	QUEEN ET AL.	
	A50	US-5,545,806-	08-13-1996	LONBERG ET AL.	
	A51	US-5,565,332-	10-15-1996	HOOGENBOOM ET AL.	
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	A53	US-5,571,698-	11-05-1996	LADNER ET AL.	
	A54	US-5,573,920-	11-12-1996	RANDLE	
	A55	US-5,580,717-	12-03-1996	DOWER ET AL.	
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	A58	US-5,601,819-	02-11-1997	WONG ET AL.	
	A59	US-5,605,793-	02-25-1997	STEMMER	
	A60	US-5,612,460-	03-18-1997	ZALIPSKY	
	A61	US-5,622,929-	04-22-1997	WILLNER ET AL.	
	A62	US-5,625,126-	04-29-1997	LONBERG ET AL.	
	A63	US-5,633,425-	05-27-1997	LONBERG ET AL.	
	A64	US-5,641,670-	06-24-1997	TRECO ET AL.	
	A65	US-5,643,575-	07-01-1997	MARTINEZ ET AL.	
	A66	US-5,652,361-	07-29-1997	SIMON ET AL.	
	A67	US-5,658,727-	08-19-1997	BARBAS ET AL.	
	A68	US-5,661,016-	08-26-1997	LONBERG ET AL.	
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	A79	US-5,807,715-	09-15-1998	MORRISON ET AL.	
	A80	US-5,808,003-	09-15-1998	SUBRAMANIAN ET AL.	
	A81	US-5,811,097-	09-22-1998	ALLISON ET AL.	
	A82	US-5,811,238-	09-22-1998	STEMMER ET AL.	

Examiner Signature		Date Considered	
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				Application Number	09/899059	
Sheet		3	of	30	Filing Date	07/06/2001
					First Named Inventor	Craig A. Rosen
					Art Unit	1647
					Examiner Name	Guo-Liang Yu
					Attorney Docket Number	075977-0122

U.S. PATENT DOCUMENTS					
		Document Number			
	A83	US-5,814,318-	09-29-1998	LONBERG ET AL.	
	A84	US-5,821,047-	10-13-1998	GARRARD ET AL.	
	A85	US-5,830,721-	11-03-1998	STEMMER ET AL.	
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	A88	US-5,876,969-	03-02-1999	FLEER ET AL.	
	A89	US-5,885,793-	03-23-1999	GRIFFITHS ET AL.	
	A90	US-5,916,771-	06-29-1999	HORI ET AL.	
	A91	US-5,939,598-	08-17-1999	KUCHERLAPATI ET AL.	
	A92	US-5,969,108-	10-19-1999	MCCAFFERTY ET AL.	
	A93	US-5,985,660-	11-16-1999	GALY	
	A94	US-6,075,181-	06-13-2000	KUCHERLAPATI ET AL.	
	A95	US-6,114,598-	09-05-2000	KUCHERLAPATI ET AL.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Application Document Serial Number-Kind Code <sup>2</sup> (if known)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	A96	WO-00/52028-A1	09-08-2000	HUMAN GENOME SCIENCES, INC.		
	A97	WO-00/64465-A1	11-02-2000	HUMAN GENOME SCIENCES ET AL.		
	A98	EP-0 171 496-B1	05-23-1993	RESEARCH DEVELOPMENT CORPORATION OF JAPAN		
	A99	EP-0 173 494-A2	03-05-1986	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY		
	A100	DE-196 39 601-A1	09-04-1997	BAYER AG		
	A101	EP-0 239 400-B1	09-30-1987	MEDICAL RESEARCH COUNCIL		

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			<b>Filing Date</b>	07/06/2001
			<b>First Named Inventor</b>	Craig A. Rosen
			<b>Art Unit</b>	1647
			<b>Examiner Name</b>	Guo-Liang Yu
(use as many sheets as necessary)			<b>Attorney Docket Number</b>	075977-0122
<b>Sheet</b>	4	of	30	

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	A102	EP-0 282 317-A2	09-14-1988	AMGEN INC.		
	A103	EP-0 307 434-B2	03-22-1989	SCOTGEN BIOPHARMACEUTICALS, INC.		
	A104	EP-0 322 094-B1	02-12-1992	DELTA BIOTECHNOLOGY LIMITED		
	A105	EP-0 367 166-A1	05-09-1990	TAKEDA CHEMICAL INDUSTRIES, LTD.		
	A106	EP-0 394 827-A1	10-31-1990	F. HOFFMAN-LA ROCHE AG		
	A107	EP-0 396 387-B1	11-07-1990	RESEARCH DEVELOPMENT FOUNDATION		
	A108	EP-0 399 816-B1	12-20-1995	MERCK & CO., INC.		
	A109	EP-0 401 384-A1	12-12-1990	KIRIN-AMGEN, INC.		
	A110	EP-0 413 622-B1	02-20-1991	RHONE-POULENC RORER S.A.		
	A111	EP-0 439 095-A2	07-31-1991	BRISTOL-MYERS SQUIBB CO.		
	A112	EP-0 506 477-B1	09-30-1992	MERCK & CO., INC.		
	A113	EP-0 519 596-A1	12-23-1992	MERCK & CO., INC.		
	A114	EP-0 592 106-B1	04-13-1994	IMMUNOGEN INC.		
	A115	EP-0 682 110-A1	11-15-1995	CHIRON CORP.		
	A116	WO-86/01533-A1	03-13-1986	CELLTECH LIMITED		
	A117	WO-86/05807-A1	10-09-1986	CELLTECH LIMITED		
	A118	WO-87/01130-A1	02-26-1987	STAUFFER CHEMICAL CO.		
	A119	WO-87/02671-A1	05-07-1987	INTERNATIONAL GENETIC ENGINEERING, INC.		
	A120	WO-87/04462-A1	07-30-1987	CELLTECH LIMITED ET AL.		
	A121	WO-89/01036-A1	02-09-1989	CELLTECH LIMITED		
	A122	WO-89/02036-A1	03-09-1989	UPAT GMBH & CO.		
	A123	WO-89/10404-A1	11-02-1989	CELLTECH LIMITED		
	A124	WO-89/12624-A1	12-28-1989	CETUS CORPORATION		
	A125	WO-90/02809-A1	03-22-1990	PROTEIN ENGINEERING CORP.		
	A126	WO-90/11092-A1	10-04-1990	VICAL, INC., ET AL.		
	A127	WO-90/13649-A1	11-15-1990	GENENTECH, INC.		
	A128	WO-91/00360-A1	01-10-1991	MEDAREX, INC.		
	A130	WO-91/06570-A1	05-16-1991	THE UNIVERSITY OF MELBOURNE		

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				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	A131	WO-91/06657-A1	05-16-1991	CELLTECH LIMITED		
	A132	WO-91/09967-A1	07-11-1991	CELLTECH LIMITED		
	A133	WO-91/10737-A1	07-25-1991	MOLECULAR AFFINITIES CORP.		
	A134	WO-91/10741-A1	07-25-1991	CELL GENESYS, INC.		
	A135	WO-91/14438-A1	10-03-1991	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK		
	A136	WO-92/01047-A1	01-23-1992	CAMBRIDGE ANTIBODY TECHNOLOGY LIMITED		
	A137	WO-92/05793-A1	04-16-1992	MEDAREX, INC.		
	A138	WO-92/06180-A1	04-16-1992	UNIVRSITY OF CONNECTICUT		
	A139	WO-92/06194-A1	04-16-1992	CONSIGLIO NAZIONALE DELLE RICERCHE		
	A140	WO-92/08495-A1	05-29-1992	ABBOTT BIOTECH, INC.		
	A141	WO-92/08802-A1	05-29-1992	CETUS CORPORATION		
	A142	WO-92/18619-A1	10-29-1992	THE SCRIPPS RESEARCH INSTITUTE		
	A143	WO-92/22324-A1	12-22-1992	XOMA CORPORATION		
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	A145	WO-93/11236-A1	06-10-1993	MEDICAL RESEARCH COUNCIL ET AL.		
	A146	WO-93/14188-A1	07-22-1993	THE REGENTS OF THE UNIVERSITY OF MICHIGAN		
	A147	WO-93/17715-A1	09-16-1993	UNIVERSITY OF OF TEXAS SYSTEM, BOARD OF REGENTS ET AL.		
	A148	WO-93/20221-A1	10-14-1993	ALEXANDER YOUNG		
	A149	WO-93/21232-A1	10-28-1993	RESEARCH DEVELOPMENT FOUNDATION		
	A150	WO-93/25788-A1	12-23-1993	HOPPE AG		
	A151	WO-94/08598-A1	04-28-1994	ADVANCED TISSUE SCIENCES, INC.		
	A152	WO-94/12649-A1	06-09-1994	GENZYME CORPORATION		
	A153	WO-94/12650-A1	06-09-1994	TRANSKARYOTIC THERAPIES, INC.		

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			Filing Date	07/06/2001	
			First Named Inventor	Craig A. Rosen	
			Art Unit	1647	
			Examiner Name	Guo-Liang Yu	
Sheet	6	of	30	Attorney Docket Number	075977-0122

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	A154	WO-95/06058-A1	03-02-1995	ROYAL FREE HOSPITAL SCHOOL OF MEDICINE		
	A155	WO-95/15982-A1	06-15-1995	GENZYME CORP.		
	A156	WO-95/20401-A1	08-03-1995	TRUSTEES OF BOSTON UNIVERSITY		
	A157	WO-96/04388-A1	02-15-1996	SMITHKLINE BEECHAM PLC, ET AL.		
	A158	WO-96/26736-A1	09-06-1996	LUDWIG INSTITUTE FOR CANCER RESEARCH ET AL.		
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	A160	WO-96/33735-A1	10-31-1996	CELL GENESYS, INC.		
	A161	WO-96/34095-A1	10-31-1996	HUMAN GENOME SCIENCES, INC.		
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	A169	WO-98/06842-A1	02-19-1998	SCHERING CORP.		
	A170	WO-98/07832-A1	02-26-1998	LUDWIG INSTITUTE FOR CANCER RESEARCH ET AL.		
	A171	WO-98/07880-A1	02-26-1998	HUMAN GENOME SCIENCES, INC.		
	A172	WO-98/11779-A1	03-26-1998	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		
	A173	WO-98/16654-A1	04-23-1998	JAPAN TOBACCO, INC.		

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	A174	WO-98/18921-A1	05-07-1998	HUMAN GENOME SCIENCES, INC.		
	A175	WO-98/24893-A1	06-11-1998	ABGENIX, INC.		
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	A180	WO-98/46645-A1	10-22-1998	PETER KUFER ET AL.		
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	A186	WO-99/23105-A1	05-14-1999	HUMAN GENOME SCIENCES, INC.		
	A187	WO98/30694	07-16-1998	HUMAN GENOME SCIENCES, INC.		

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	A188	"Production of Antibody-Producing Hybridomas in Rodent Systems," pgs. 563-587 (1978).	
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	A190	A. BOUT et al., "Lung Gene Therapy: In Vivo Adenovirus-Mediated Gene Transfer to Rhesus Monkey Airway Epithelium," Human Gene Therapy, Vol. 5, (1994), pgs. 3-10.	
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				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
Sheet	12	of	30	Attorney Docket Number	075977-0122

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				<b>Art Unit</b>	1647
				<b>Examiner Name</b>	Guo-Liang Yu
(use as many sheets as necessary)				<b>Attorney Docket Number</b>	075977-0122
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				First Named Inventor	Craig A. Rosen
				Art Unit	1647
Examiner Name	Guo-Liang Yu				
Sheet	17	of	30	Attorney Docket Number	075977-0122

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					<b>First Named Inventor</b>	Craig A. Rosen
					<b>Art Unit</b>	1647
					<b>Examiner Name</b>	Guo-Liang Yu
					<b>Attorney Docket Number</b>	075977-0122

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Sheet	22	of	30

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				Art Unit	1647
				Examiner Name	Guo-Liang Yu
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				<b>Art Unit</b>	1647
				<b>Examiner Name</b>	Guo-Liang Yu
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		<b>Application Number</b> <b>Filing Date</b> <b>First Named Inventor</b> <b>Art Unit</b> <b>Examiner Name</b> <b>Attorney Docket Number</b>	09/899059 07/06/2001 Craig A. Rosen 1647 Guo-Liang Yu 075977-0122
Sheet	28	of	30

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				<b>Filing Date</b>	07/06/2001
				<b>First Named Inventor</b>	Craig A. Rosen
				<b>Art Unit</b>	1647
				<b>Examiner Name</b>	Guo-Liang Yu
<b>Sheet</b>	29	of	30	<b>Attorney Docket Number</b>	075977-0122

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